Program:

- 11.00 The International Ecosystem of Big Science (Leonardo Biagioni, F4E/ITER)
- 11.30 Technological and scientific challenges for ITER (Tony Donné, F4E)
- 12.00 The developments around the Einstein Telescope (Jo van den Brand, Uni Maastricht/Nikhef)
- 12.30 Lunch
- 13.30 Connecting science and industry in astronomical research (Marco de Vos, ASTRON)
- 14.00 Future developments for interferometry and Big Data (Michael Wise, SRON)
- 14.30 The value of Big Science from an industry perspective (Hans Priem, VDL-ETG)
- 15.00 Break
- 15.30 Forum of experts and policy makers fueled by questions from the speakers
- 16.30-17.30 Reception and drinks

Jan Geralt Bij de Vaate

Head of Instrument Science

j.g.bij.de.vaate@sron.nl





Staff and Locations

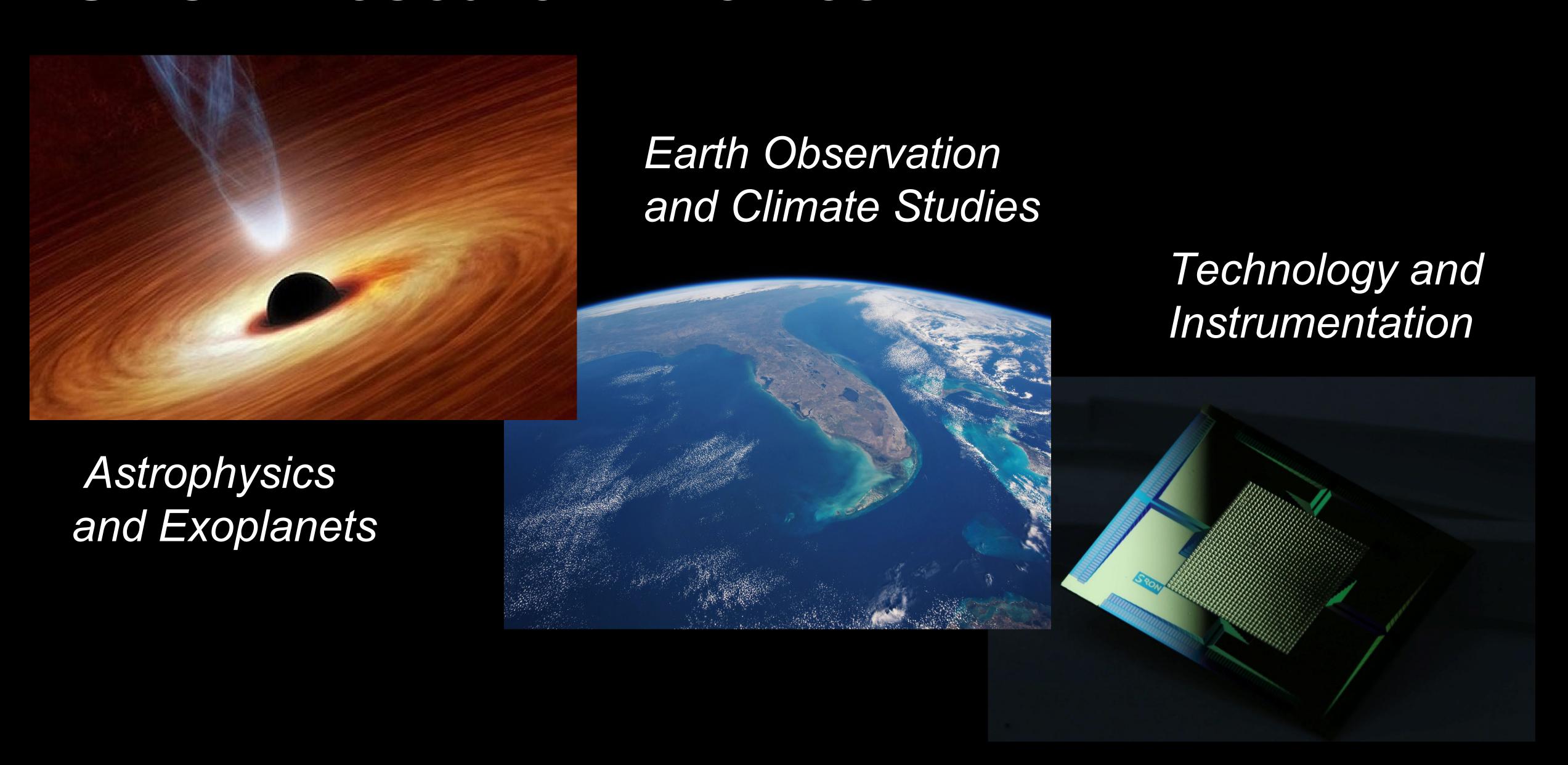


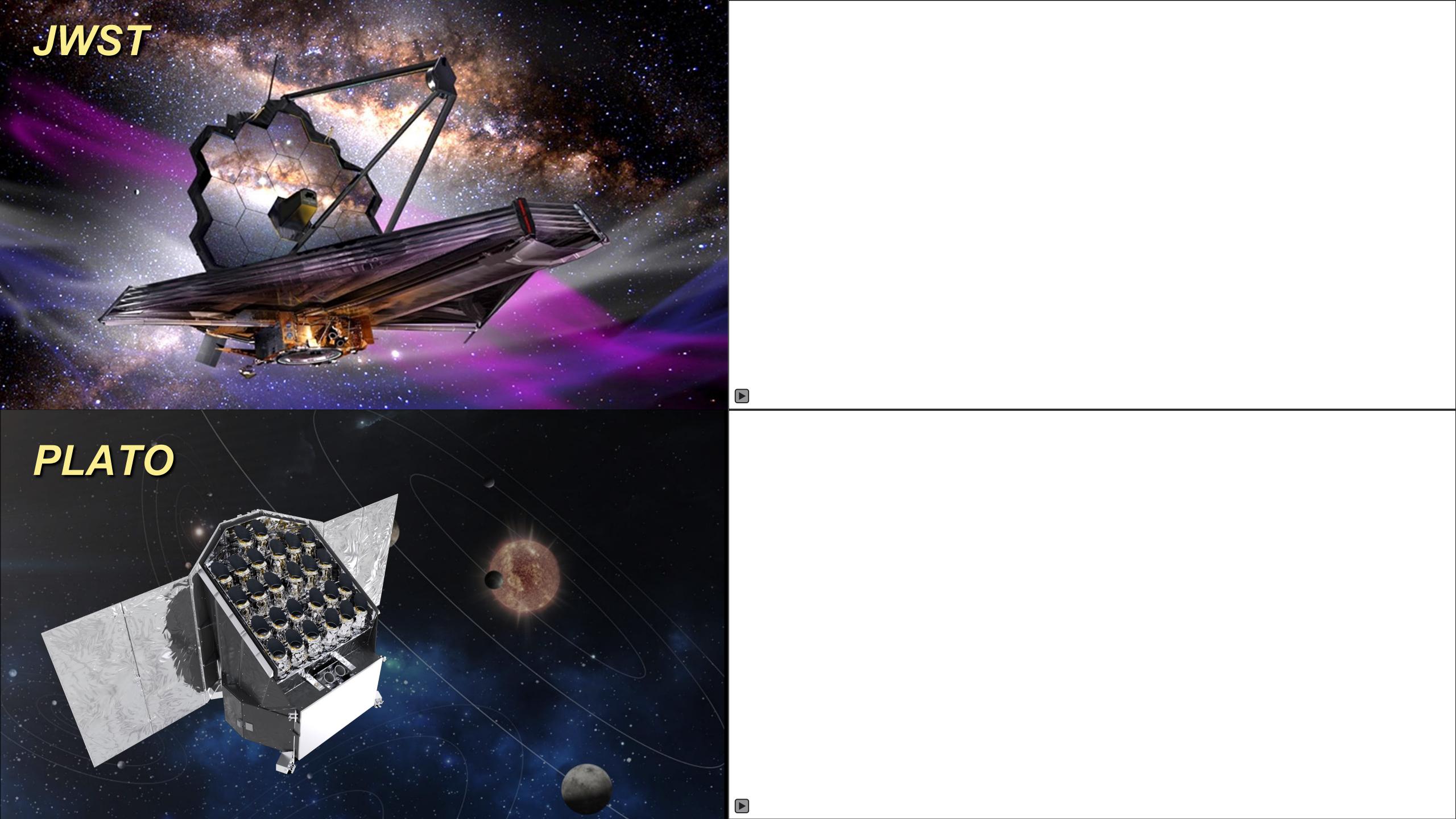


- One Institute, two locations, ~190 staff (~140 Leiden, ~50 Groningen)
- Scientists/Instrument Scientists (50%), Engineers (30%), Staff and support (20%)

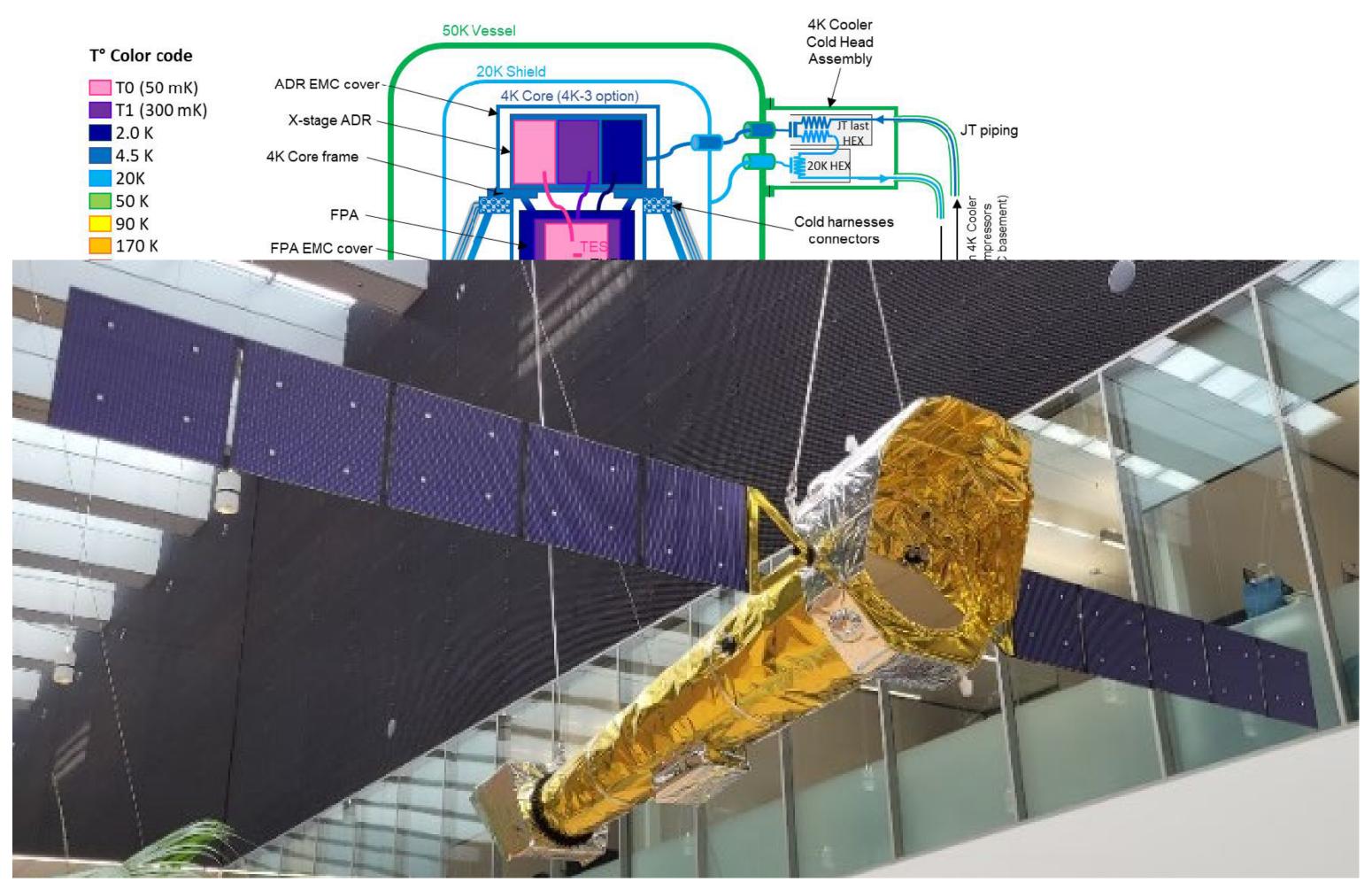


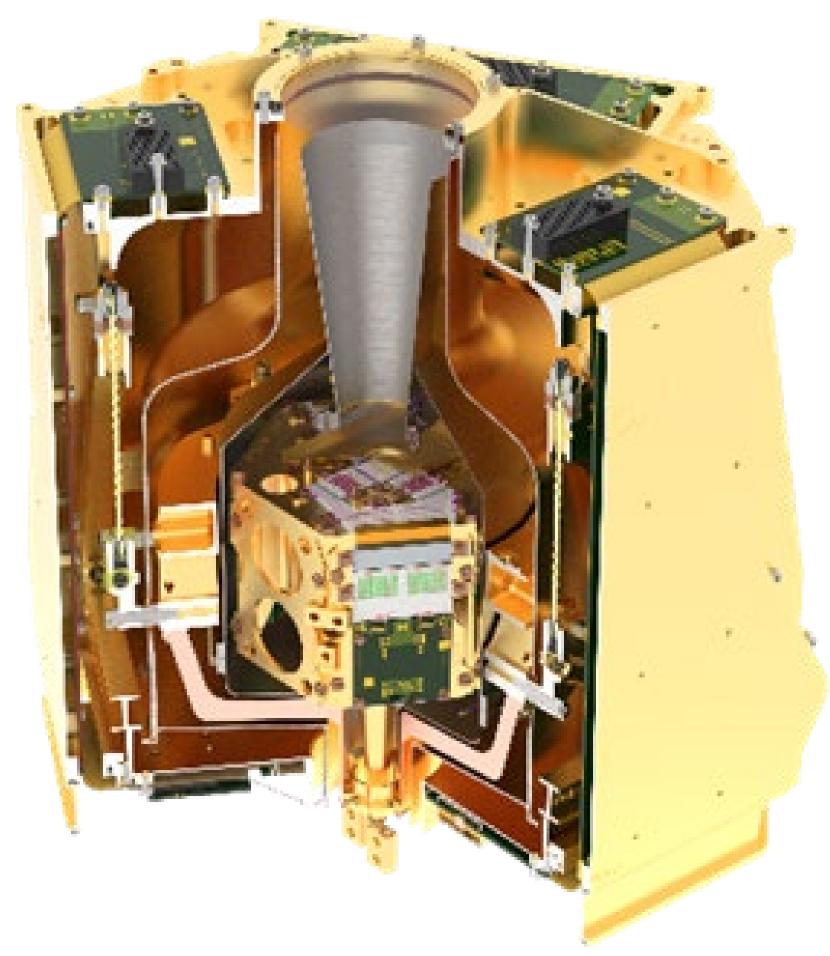
SRON Research Themes





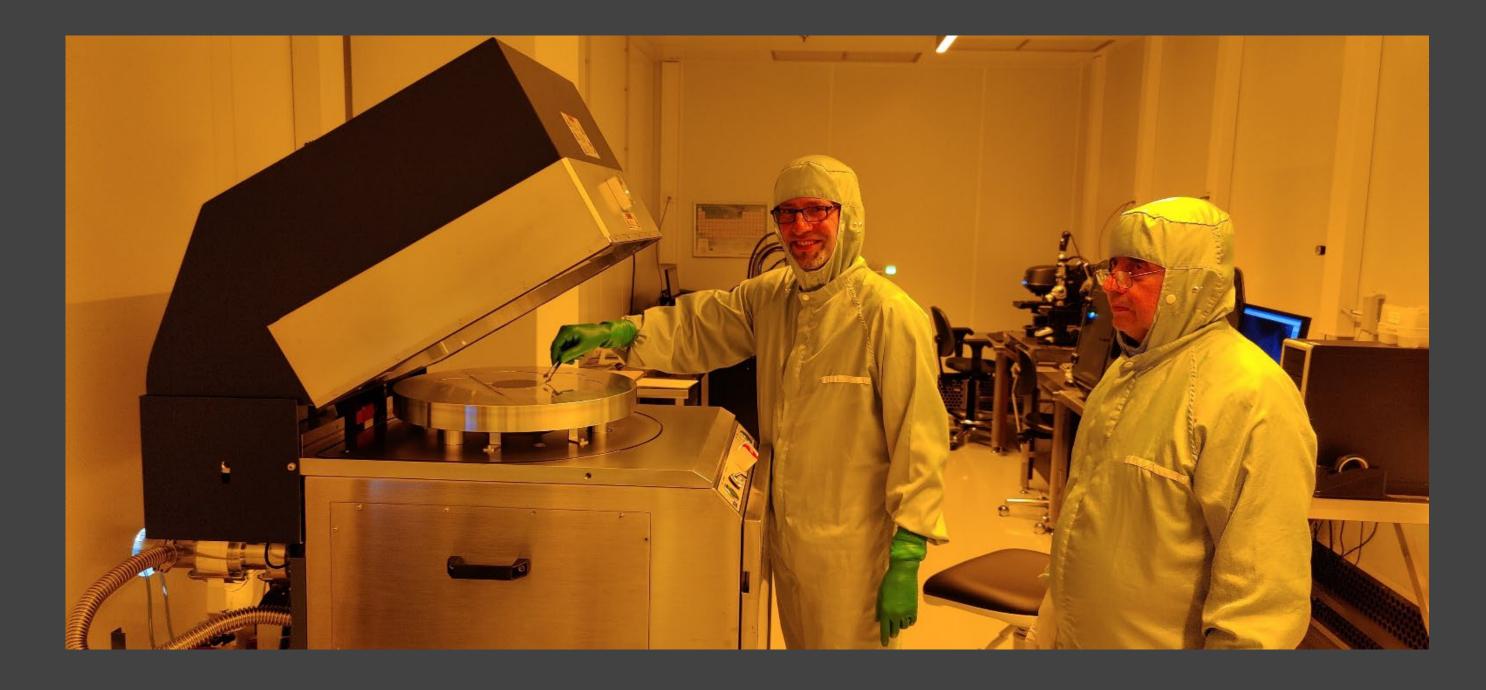
Athena, an X-ray mission







The SRON clean room



PE-CVD (SiO2, Si3N4, a-Si, SiC)
Etch masks
Isolators, optical layers
Dielectric layer for LC filters

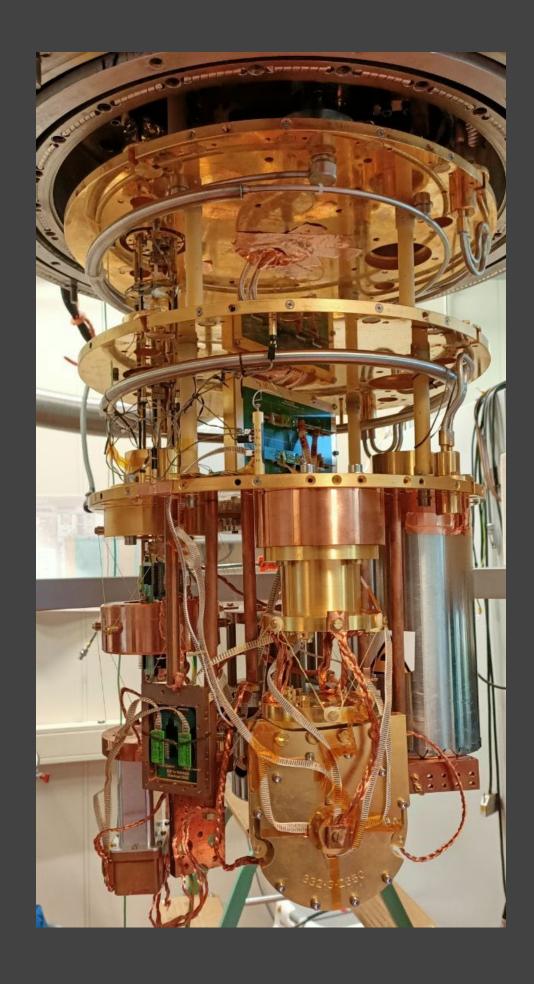
100 mm **& 150 mm** wafers

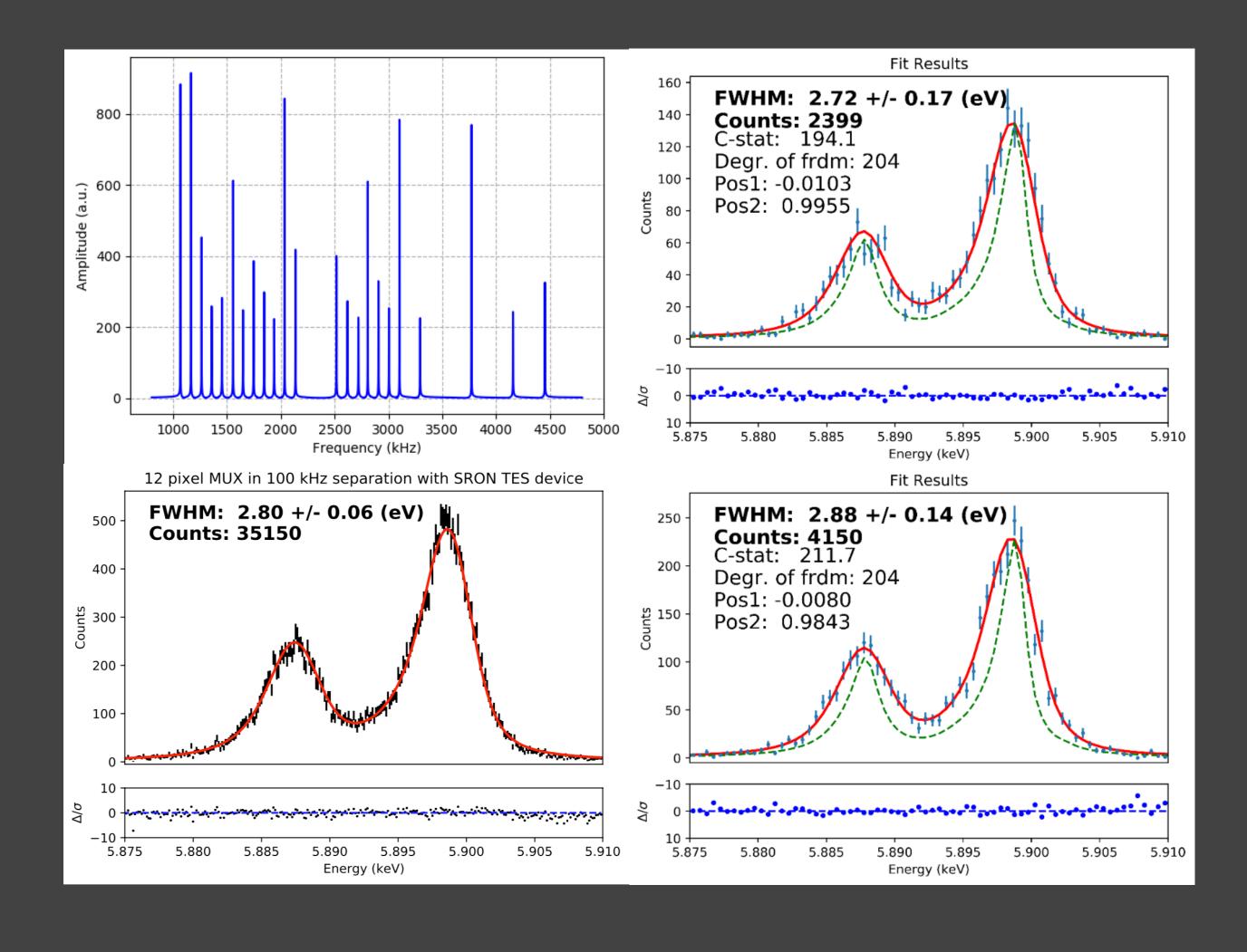
- New technique for SRON
- Process commissioning going
- SiO2 properties & uniformity OK
- Si3N4, a-Si in progress





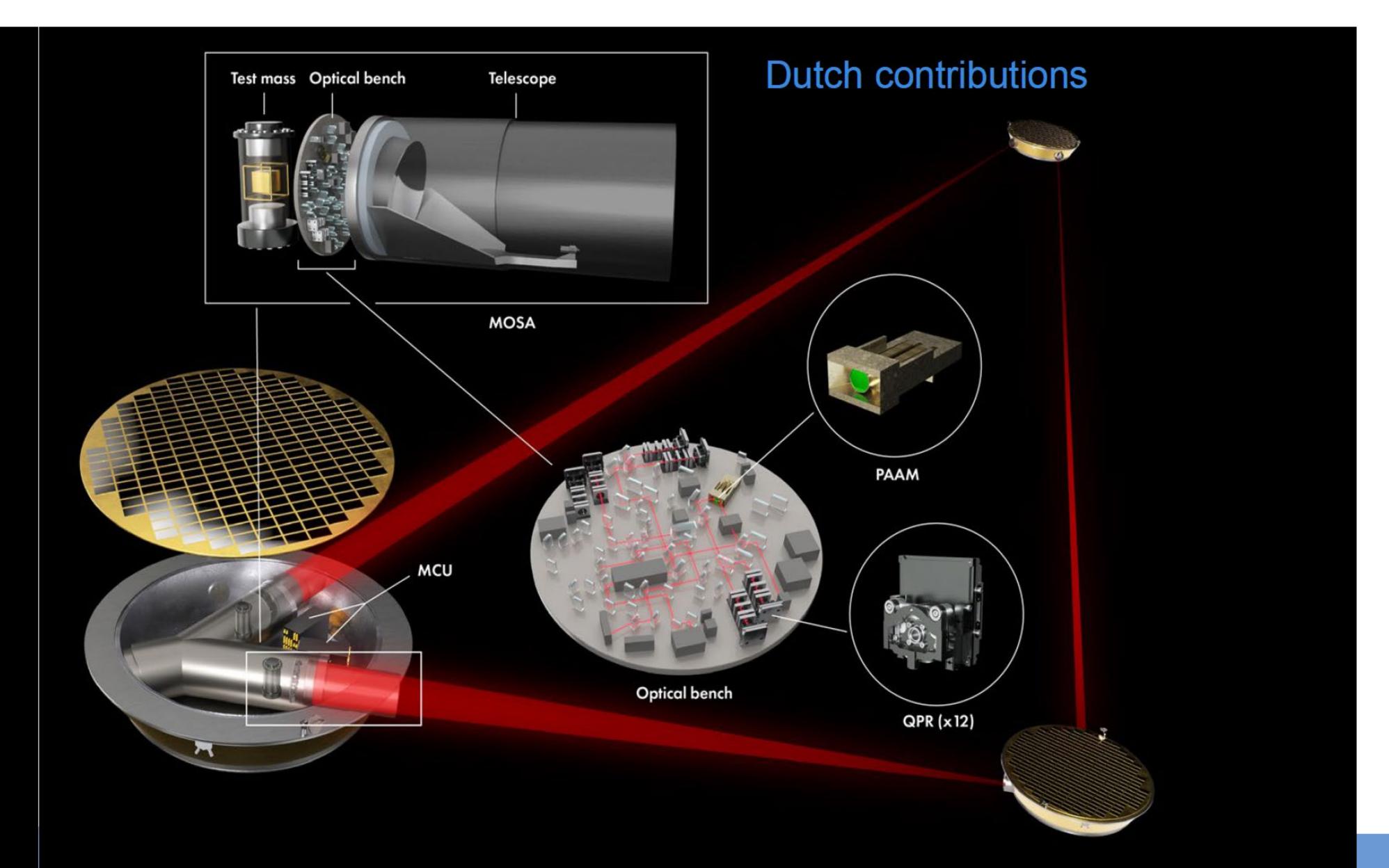
FDM Read out for X-ray TES micro-calorimeters





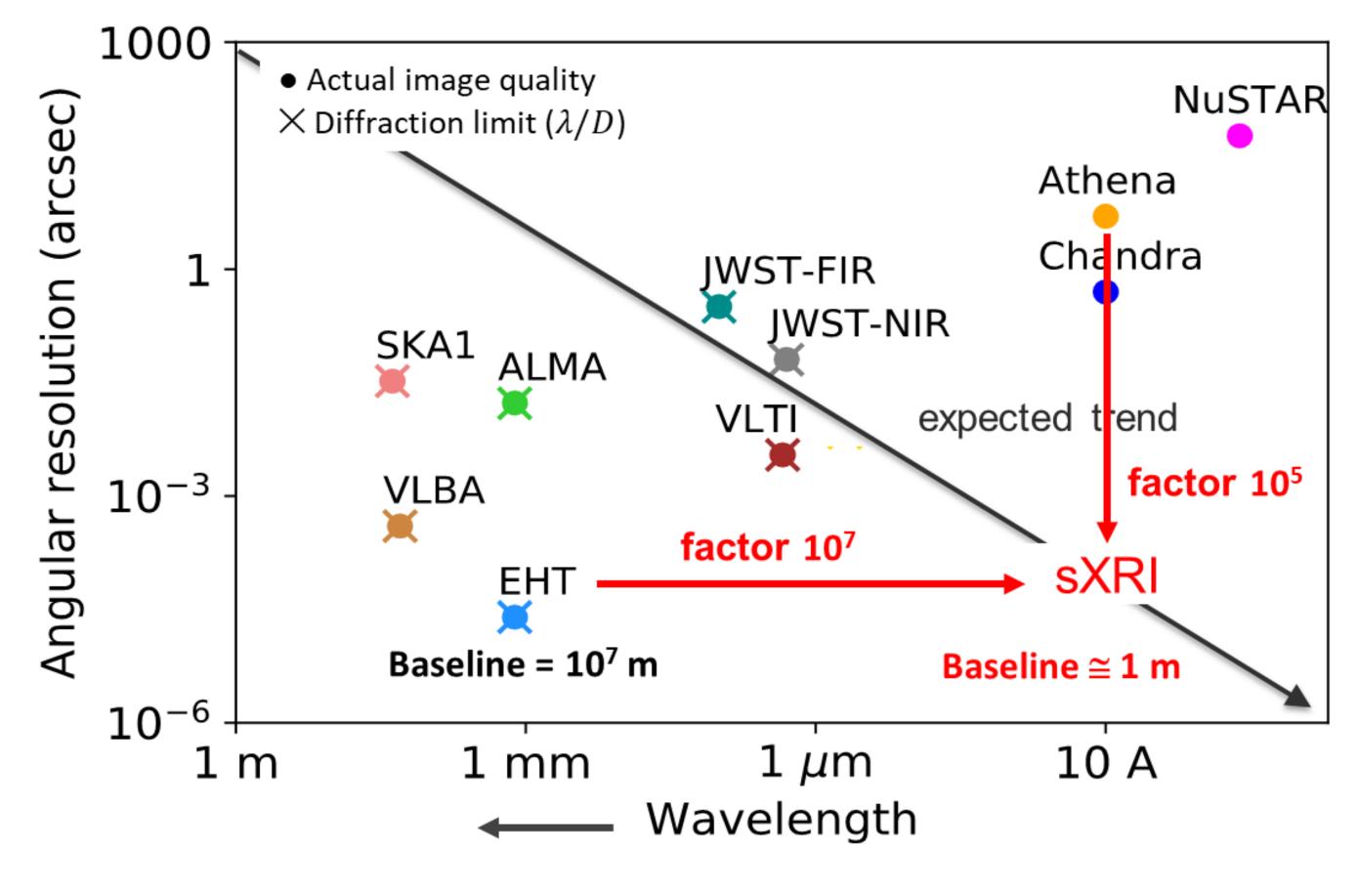


LISA, gravitational wave detection

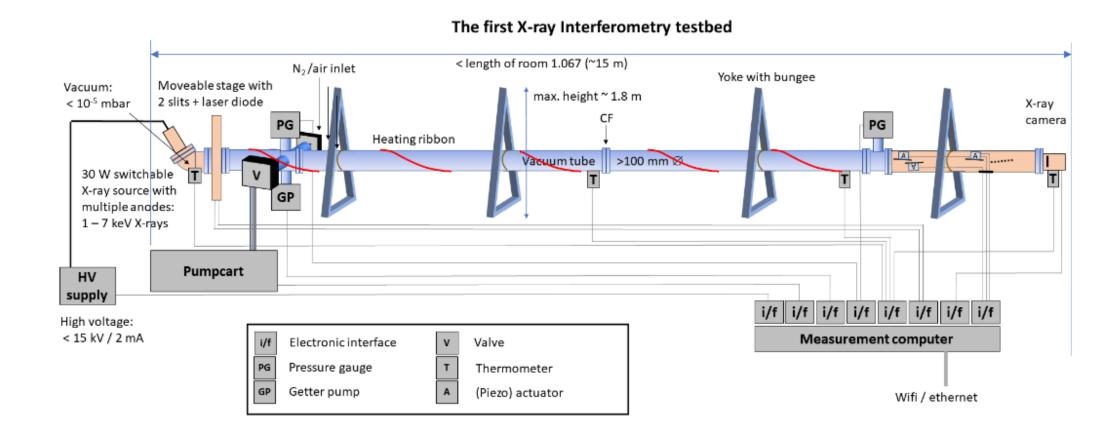


Technology: Interferometry

To achieve superb resolution in Rontgen domain: λ/D



Our long-term goal is to develop a single s/c X-ray telescope with a spatial resolution of 50 – 100 µas.





Coming up

XRISM, launched in September 2023, Japan



GUSTO, balloon FIR mission, launch in December 2023, Antartics

PACE, launch in spring 2024, USA



